

November 2005

Published\_Applications Nucleic Acid and Published\_Applications Amino Acid database searches now generate two sets of results each. The Published\_Applications databases have been split into two parts to reduce the amount of time required for their daily updates. This results in more machine time being available for processing searches.

Newly published applications will appear in the Published\_Applications\_New databases; older published applications make up the Published\_Applications\_Main databases.

Searches run against Nucleic Acid Published\_Applications produce two sets of results, with the extensions **.rnpbm** (Published\_Applications\_NA\_Main) and **.rnpbn** (Published\_Applications\_NA\_New). Searches run against Amino Acid Published\_Applications produce two sets of results, with the extensions **.rapbm** (Published\_Applications\_AA\_Main) and **.rapbn** (Published\_Applications\_AA\_New).

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OM protein - protein search, using sw model

Run on: May 19, 2006, 17:32:02 ; Search time 9 Seconds  
(without alignments)  
0.949 Million cell updates/eic

Title: US-10-825-958-13

Perfect score: 19

Sequence: 1 KLVF 4

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 21570 seqs, 2136119 residues

Total number of hits satisfying chosen parameters: 21570

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

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5: /EMC\_Celerra\_SIDS3/prodata/2/pubppaa/US10\_NEW\_PUB.pep:\*  
6: /EMC\_Celerra\_SIDS3/prodata/2/pubppaa/US11\_NEW\_PUB.pep:\*  
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8: /EMC\_Celerra\_SIDS3/prodata/2/pubppaa/US60\_NEW\_PUB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	19	100.0	5	6	US-10-520-386-2
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4	19	100.0	40	1	US-09-731-889-5
5	19	100.0	40	7	US-11-104-300-3
6	19	100.0	42	1	US-09-731-889-3
7	19	100.0	42	7	US-11-104-300-2
8	19	100.0	43	1	US-09-731-889-4
9	19	100.0	59	1	US-09-731-889-1
10	19	100.0	71	7	US-11-254-185-19
11	19	100.0	123	7	US-11-254-185-29
12	19	100.0	148	6	US-10-196-749-456
13	19	100.0	254	7	US-11-167-773-57
14	19	100.0	254	7	US-11-167-773-76
15	19	100.0	282	7	US-11-251-466-46
16	19	100.0	282	7	US-11-264-784-12
17	19	100.0	294	6	US-10-505-928-33
18	19	100.0	313	1	US-09-949-925-89
19	19	100.0	344	6	US-10-505-928-652
20	19	100.0	424	6	US-10-196-749-8
21	19	100.0	448	6	US-10-975-692-15
22	19	100.0	710	7	US-11-258-767-33
23	19	100.0	711	7	US-11-258-767-12
24	19	100.0	711	7	US-11-258-767-15
25	19	100.0	711	7	US-11-258-767-17

26	19	100.0	711	7	US-11-258-767-18	Sequence 10, Appl
27	19	100.0	711	7	US-11-258-767-21	Sequence 21, Appl
28	19	100.0	711	7	US-11-258-767-27	Sequence 27, Appl
29	19	100.0	711	7	US-11-258-767-30	Sequence 30, Appl
30	19	100.0	711	7	US-11-258-767-34	Sequence 34, Appl
31	19	100.0	727	7	US-11-185	Sequence 12, Appl
32	19	100.0	770	7	US-11-104-300-1	Sequence 1, Appl
33	19	100.0	1333	6	US-10-511-937-2992	Sequence 2992, Ap
34	19	100.0	1403	6	US-10-505-928-471	Sequence 471, Ap
35	19	100.0	2871	6	US-10-505-928-100	Sequence 100, Ap
36	18	94.7	68	1	US-09-949-925-145	Sequence 145, Ap
37	18	94.7	267	7	US-11-024-544-141	Sequence 141, Ap
38	18	94.7	267	7	US-11-024-545-63	Sequence 63, Appl
39	18	94.7	267	7	US-11-251-466-37	Sequence 37, Appl
40	18	94.7	267	7	US-11-254-173-48	Sequence 48, Appl
41	18	94.7	267	7	US-11-264-784-51	Sequence 51, Appl
42	18	94.7	344	6	US-10-196-749-178	Sequence 178, Ap
43	18	94.7	344	6	US-11-101-916-42	Sequence 42, Appl
44	18	94.7	353	6	US-10-511-937-2554	Sequence 2554, Ap
45	18	94.7	370	7	US-11-305-477-1	Sequence 1, Appl
46	18	94.7	378	6	US-10-511-937-2404	Sequence 2404, Ap
47	18	94.7	476	7	US-11-242-505A-12	Sequence 12, Appl
48	18	94.7	544	6	US-10-505-928-859	Sequence 859, Ap
49	18	94.7	600	6	US-10-370-959-155	Sequence 155, Ap
50	18	94.7	672	6	US-10-370-959-152	Sequence 152, Ap
51	18	94.7	672	6	US-10-370-959-154	Sequence 154, Ap
52	18	94.7	730	6	US-10-505-928-841	Sequence 841, Ap
53	18	94.7	1085	6	US-10-505-928-175	Sequence 175, Ap
54	18	94.7	1180	6	US-10-505-928-177	Sequence 177, Ap
55	18	94.7	1575	6	US-10-505-928-257	Sequence 257, Ap
56	18	94.7	2215	6	US-10-505-928-310	Sequence 310, Ap
57	18	94.7	4051	6	US-10-501-834-7	Sequence 7, Appl
58	18	94.7	4059	6	US-10-501-834-6	Sequence 6, Appl
59	18	94.7	4074	6	US-10-501-834-2	Sequence 2, Appl
60	17	89.5	117	7	US-11-301-554-1673	Sequence 1673, Ap
61	17	89.5	145	7	US-11-301-554-1672	Sequence 1672, Ap
62	17	89.5	479	6	US-10-505-928-835	Sequence 835, Ap
63	17	89.5	572	6	US-10-505-928-98	Sequence 98, Appl
64	17	89.5	572	6	US-11-301-554-1815	Sequence 1815, Ap
65	17	89.5	760	6	US-10-505-928-475	Sequence 475, Ap
66	17	89.5	1821	6	US-10-505-928-451	Sequence 451, Ap
67	17	89.5	2671	6	US-10-505-928-784	Sequence 784, Ap
68	16	84.2	11	6	US-10-538-066-126	Sequence 126, Ap
69	16	84.2	11	6	US-10-538-066-127	Sequence 127, Ap
70	16	84.2	11	6	US-10-538-066-128	Sequence 128, Ap
71	16	84.2	13	7	US-11-264-509A-132	Sequence 132, Ap
72	16	84.2	24	7	US-11-230-593A-21	Sequence 21, Appl
73	16	84.2	153	6	US-10-196-749-232	Sequence 232, Ap
74	16	84.2	194	6	US-10-505-928-791	Sequence 791, Ap
75	16	84.2	195	6	US-10-370-959-98	Sequence 98, Appl
76	16	84.2	228	6	US-10-505-928-183	Sequence 183, Ap
77	16	84.2	228	6	US-10-511-937-2403	Sequence 2403, Ap
78	16	84.2	240	6	US-10-468-193-3	Sequence 3, Appl
79	16	84.2	289	6	US-10-505-928-365	Sequence 365, Ap
80	16	84.2	300	6	US-10-196-749-18	Sequence 18, Appl
81	16	84.2	300	6	US-10-196-749-132	Sequence 132, Ap
82	16	84.2	312	7	US-11-113-081A-4	Sequence 4, Appl
83	16	84.2	312	7	US-11-023-511-1	Sequence 1, Appl
84	16	84.2	330	6	US-10-511-455-32	Sequence 32, Appl
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86	16	84.2	334	6	US-10-538-066-763	Sequence 763, Ap
87	16	84.2	374	6	US-10-511-937-2420	Sequence 2420, Ap
88	16	84.2	374	6	US-10-538-066-367	Sequence 367, Ap
89	16	84.2	393	7	US-11-315-777-9	Sequence 9, Appl
90	16	84.2	442	7	US-11-101-916-76	Sequence 76, Appl
91	16	84.2	442	7	US-10-505-928-833	Sequence 833, Ap
92	16	84.2	456	6	US-10-196-749-496	Sequence 496, Ap
93	16	84.2	458	6	US-10-196-749-546	Sequence 546, Ap
94	16	84.2	467	6	US-10-196-749-16	Sequence 16, Appl
95	16	84.2	468	7	US-11-242-111-27	Sequence 27, Appl
96	16	84.2	469	7	US-11-101-916-58	Sequence 58, Appl
97	16	84.2	490	6	US-10-982-908-18	Sequence 18, Appl
98	16	84.2	502	6	US-10-196-749-400	Sequence 400, Ap

99	16	84.2	502	7	US-11-311-555-12	Sequence 12, Appl	172	15	78.9	352	6	US-10-511-937-2412	Sequence 2412, Ap
100	16	84.2	502	7	US-11-311-561-12	Sequence 12, Appl	173	15	78.9	322	6	US-11-251-465-71	Sequence 71, Appl
101	16	84.2	502	7	US-11-101-316-158	Sequence 158, App	174	15	78.9	322	6	US-10-511-937-2583	Sequence 2583, Ap
102	16	84.2	526	7	US-11-024-544A-12	Sequence 12, Appl	175	15	78.9	407	6	US-10-515-716-6	Sequence 6, Appl1
103	16	84.2	526	7	US-11-024-544A-14	Sequence 14, Appl	176	15	78.9	415	6	US-10-511-937-2993	Sequence 2993, Ap
104	16	84.2	526	7	US-11-190-750-80	Sequence 80, Appl	177	15	78.9	442	7	US-11-289-989-6	Sequence 6, Appl1
105	16	84.2	526	7	US-11-190-750-84	Sequence 84, Appl	178	15	78.9	442	7	US-11-289-989-16	Sequence 16, Appl
106	16	84.2	526	7	US-11-264-784-82	Sequence 82, Appl	179	15	78.9	457	6	US-10-196-749-48	Sequence 48, Appl
107	16	84.2	526	7	US-11-196-749-398	Sequence 398, App	180	15	78.9	457	7	US-11-101-316-12	Sequence 12, Appl
108	16	84.2	560	6	US-10-166-193-34	Sequence 34, Appl	181	15	78.9	459	6	US-10-928-828-461	Sequence 461, Appl
109	16	84.2	673	6	US-10-505-928-551	Sequence 551, App	182	15	78.9	474	6	US-10-982-908-14	Sequence 14, Appl
110	16	84.2	737	6	US-10-505-928-123	Sequence 123, App	183	15	78.9	474	6	US-10-982-908-16	Sequence 16, Appl
111	16	84.2	737	6	US-10-505-928-608	Sequence 608, App	184	15	78.9	475	6	US-10-505-928-142	Sequence 142, App
112	16	84.2	763	6	US-10-505-928-304	Sequence 304, App	185	15	78.9	475	6	US-10-982-908-12	Sequence 12, Appl
113	16	84.2	799	6	US-10-511-455-62	Sequence 62, Appl	186	15	78.9	475	7	US-11-254-195-9	Sequence 9, Appl1
114	16	84.2	811	6	US-10-511-937-2584	Sequence 2584, Ap	187	15	78.9	480	6	US-10-196-749-82	Sequence 82, Appl
115	16	84.2	820	6	US-10-982-908-26	Sequence 26, Appl	188	15	78.9	480	6	US-11-249-111-77	Sequence 77, Appl
116	16	84.2	821	6	US-10-505-928-316	Sequence 316, App	189	15	78.9	500	7	US-11-254-195-6	Sequence 6, Appl1
117	16	84.2	864	7	US-11-312-797-2	Sequence 2, Appl1	190	15	78.9	500	7	US-11-024-544A-172	Sequence 172, App
118	16	84.2	951	6	US-10-199-229-9	Sequence 9, Appl1	191	15	78.9	500	7	US-11-190-750-140	Sequence 140, App
119	16	84.2	951	6	US-10-199-229-13	Sequence 13, Appl	192	15	78.9	505	6	US-10-505-928-619	Sequence 619, App
120	16	84.2	967	6	US-10-505-928-795	Sequence 795, App	193	15	78.9	505	7	US-11-242-111-28	Sequence 28, Appl
121	16	84.2	995	7	US-11-246-999-48	Sequence 48, Appl	194	15	78.9	506	6	US-10-505-928-135	Sequence 135, App
122	16	84.2	1025	6	US-10-505-928-505	Sequence 505, App	195	15	78.9	513	7	US-11-101-316-124	Sequence 124, App
123	16	84.2	1186	6	US-10-511-937-3566	Sequence 3566, Ap	196	15	78.9	531	7	US-11-302-678-56	Sequence 56, Appl
124	16	84.2	1457	7	US-11-280-757-37	Sequence 37, Appl	197	15	78.9	542	7	US-11-327-614-2	Sequence 2, Appl1
125	16	84.2	1539	6	US-10-511-937-2545	Sequence 2545, Ap	198	15	78.9	542	7	US-11-227-614-4	Sequence 4, Appl1
126	16	84.2	1822	6	US-10-505-928-700	Sequence 700, App	199	15	78.9	552	6	US-10-505-928-813	Sequence 813, App
127	16	84.2	1842	6	US-10-511-937-2929	Sequence 2929, App	200	15	78.9	557	6	US-10-511-937-2407	Sequence 2407, Ap
128	16	84.2	2209	7	US-11-301-554-1903	Sequence 1903, Ap	201	15	78.9	633	6	US-10-504-120-19	Sequence 19, Appl
129	16	84.2	2351	7	US-11-183-218-30	Sequence 30, Appl	202	15	78.9	648	6	US-10-511-814-14	Sequence 14, Appl
130	16	84.2	2351	7	US-11-280-757-35	Sequence 35, Appl	203	15	78.9	653	6	US-10-505-928-211	Sequence 211, App
131	16	84.2	4590	7	US-10-505-928-569	Sequence 569, App	204	15	78.9	654	7	US-11-302-678-26	Sequence 26, Appl
132	15	78.9	8	6	US-10-538-066-660	Sequence 660, App	205	15	78.9	699	6	US-10-196-749-138	Sequence 138, App
133	15	78.9	9	6	US-10-538-066-321	Sequence 321, App	206	15	78.9	708	6	US-10-196-749-584	Sequence 584, App
134	15	78.9	9	6	US-10-538-066-322	Sequence 322, App	207	15	78.9	759	6	US-10-511-937-3015	Sequence 3015, App
135	15	78.9	9	6	US-10-538-066-649	Sequence 649, App	208	15	78.9	777	6	US-10-196-749-348	Sequence 348, App
136	15	78.9	10	6	US-10-538-066-34	Sequence 34, Appl	209	15	78.9	806	6	US-11-251-465-22	Sequence 22, Appl
137	15	78.9	10	6	US-10-538-066-550	Sequence 650, App	210	15	78.9	825	6	US-10-505-928-650	Sequence 650, App
138	15	78.9	11	6	US-10-538-066-21	Sequence 21, Appl	211	15	78.9	825	6	US-10-511-937-3001	Sequence 3001, App
139	15	78.9	13	6	US-10-538-066-651	Sequence 651, App	212	15	78.9	847	6	US-10-505-928-300	Sequence 300, App
140	15	78.9	68	1	US-09-949-925-116	Sequence 116, App	213	15	78.9	1050	6	US-10-511-937-2573	Sequence 2573, App
141	15	78.9	69	6	US-10-982-908-22	Sequence 22, Appl	214	15	78.9	1052	6	US-10-497-088-21	Sequence 21, Appl
142	15	78.9	75	7	US-11-251-673-1	Sequence 1, Appl1	215	15	78.9	1342	6	US-10-497-088-14	Sequence 14, Appl
143	15	78.9	85	6	US-10-501-834-9	Sequence 9, Appl1	216	15	78.9	1866	6	US-10-511-937-2968	Sequence 2968, Ap
144	15	78.9	94	6	US-10-505-928-36	Sequence 36, Appl	217	15	78.9	3113	6	US-10-505-928-325	Sequence 325, App
145	15	78.9	144	6	US-11-301-554-327	Sequence 327, App	218	14	73.7	5	7	US-11-298-344-40	Sequence 40, Appl
146	15	78.9	152	6	US-10-511-937-2442	Sequence 2442, App	219	14	73.7	9	7	US-11-140-487A-1235	Sequence 1235, Ap
147	15	78.9	152	7	US-11-301-554-787	Sequence 787, App	220	14	73.7	9	7	US-11-140-487A-2095	Sequence 2095, Ap
148	15	78.9	164	6	US-11-301-554-795	Sequence 795, App	221	14	73.7	10	6	US-10-538-066-20	Sequence 20, Appl
149	15	78.9	164	6	US-10-505-928-706	Sequence 706, App	222	14	73.7	10	6	US-11-140-487A-890	Sequence 890, App
150	15	78.9	164	6	US-10-511-814-4	Sequence 4, Appl1	223	14	73.7	10	7	US-11-140-487A-1018	Sequence 1018, App
151	15	78.9	164	6	US-11-242-111-26	Sequence 26, Appl	224	14	73.7	10	7	US-11-140-487A-1728	Sequence 1728, Ap
152	15	78.9	166	6	US-10-538-066-761	Sequence 761, App	225	14	73.7	15	6	US-10-370-959-125	Sequence 125, App
153	15	78.9	197	6	US-10-511-937-2611	Sequence 2611, App	226	14	73.7	20	7	US-11-301-554-2103	Sequence 2103, Ap
154	15	78.9	197	6	US-10-196-749-448	Sequence 448, App	227	14	73.7	23	7	US-11-251-465-91	Sequence 91, Appl
155	15	78.9	197	7	US-11-311-555-4	Sequence 4, Appl1	228	14	73.7	23	7	US-11-251-465-120	Sequence 120, App
156	15	78.9	197	7	US-11-311-561-4	Sequence 4, Appl1	229	14	73.7	23	7	US-11-251-465-124	Sequence 124, App
157	15	78.9	222	7	US-11-257-062-34	Sequence 34, Appl	230	14	73.7	26	1	US-09-731-899-7	Sequence 7, Appl1
158	15	78.9	231	7	US-11-249-111-116	Sequence 116, App	231	14	73.7	43	1	US-09-949-925-117	Sequence 117, App
159	15	78.9	251	7	US-11-249-111-111	Sequence 111, Appl	232	14	73.7	43	1	US-09-949-925-129	Sequence 129, App
160	15	78.9	256	6	US-10-541-993-24	Sequence 24, Appl	233	14	73.7	51	7	US-11-251-465-52	Sequence 52, Appl
161	15	78.9	300	7	US-10-196-749-492	Sequence 492, App	234	14	73.7	52	7	US-11-324-517-21	Sequence 21, Appl
162	15	78.9	313	7	US-11-257-062-48	Sequence 48, Appl	235	14	73.7	57	1	US-09-949-925-121	Sequence 121, App
163	15	78.9	314	6	US-10-538-066-365	Sequence 365, App	236	14	73.7	58	6	US-10-525-126-185	Sequence 185, App
164	15	78.9	314	6	US-10-538-066-366	Sequence 366, App	237	14	73.7	58	6	US-10-525-126-222	Sequence 222, App
165	15	78.9	323	6	US-10-505-928-497	Sequence 497, App	238	14	73.7	58	6	US-10-525-126-289	Sequence 289, App
166	15	78.9	325	7	US-11-264-784-65	Sequence 65, Appl	239	14	73.7	73	1	US-09-949-925-130	Sequence 130, App
167	15	78.9	331	7	US-11-024-545-3	Sequence 2, Appl1	240	14	73.7	81	6	US-10-525-126-209	Sequence 209, App
168	15	78.9	331	7	US-11-190-750-30	Sequence 30, Appl	241	14	73.7	81	6	US-10-525-126-210	Sequence 210, App
169	15	78.9	345	7	US-11-264-784-96	Sequence 96, Appl	242	14	73.7	81	6	US-10-525-126-211	Sequence 211, App
170	15	78.9	345	7	US-11-249-111-65	Sequence 65, Appl	243	14	73.7	81	6	US-10-525-126-240	Sequence 240, App
171	15	78.9	350	6	US-10-511-937-2609	Sequence 2609, Ap	244	14	73.7	81	6	US-10-525-126-241	Sequence 241, App

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OM protein - protein search, using sw model

Run on: May 19, 2006, 17:20:21 ; Search time 196 Seconds

(without alignments)  
9.331 Million cell updates/sec

Title: US-10-825-958-13

Perfect score: 19

Sequence: 1 KLVF 4

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2589679 seqs, 457216429 residues

Total number of hits satisfying chosen parameters: 2589679

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database : A Geneseq 8:\*

- 1: Geneseqp1980s:\*
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- 3: Geneseqp2000s:\*
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- 10: Geneseqp2006s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	19	100.0	4	AAW45956	Aaw45956 Amyloid b
2	19	100.0	4	AAV79936	Aav79936 Beta-amy1
3	19	100.0	4	AAW48487	Aaw48487 Antifibr1
4	19	100.0	4	AAW48479	Aaw48479 Antifibr1
5	19	100.0	4	AAW82635	Aaw82635 All-D pep
6	19	100.0	4	AAW82627	Aaw82627 All-D pep
7	19	100.0	4	AAW96815	Aaw96815 Amyloid t
8	19	100.0	4	AAW96823	Aaw96823 Amyloid t
9	19	100.0	4	AAW11661	Aaw11661 Peptide #
10	19	100.0	4	AAW11653	Aaw11653 Peptide #
11	19	100.0	4	AAW35442	Aaw35442 Abeta pep
12	19	100.0	4	AAW35449	Aaw35449 Abeta pep
13	19	100.0	4	AAW37266	Aaw37266 Vaccine a
14	19	100.0	4	AAW37384	Aaw37384 Amyloid b
15	19	100.0	4	AAW37326	Aaw37326 Antifibr1
16	19	100.0	4	AAW37218	Aaw37218 Antifibr1
17	19	100.0	4	AAW37274	Aaw37274 Vaccine a
18	19	100.0	4	AAW37925	Aaw37925 Amyloid-t
19	19	100.0	4	AAW37933	Aaw37933 Amyloid-t
20	19	100.0	4	AAW23038	Aaw23038 Human Abe
21	19	100.0	4	AAW87922	Aaw87922 Test pep
22	19	100.0	5	AAW02315	Aaw02315 Beta-amy1
23	19	100.0	5	AAW45933	Aaw45933 Partial s

24	19	100.0	5	AAW45966	Aaw45966 Peptide d
25	19	100.0	5	AAW45950	Aaw45950 Amyloid b
26	19	100.0	5	AAW29089	Aaw29089 A-beta-bi
27	19	100.0	5	AAW89367	Aaw89367 Beta-amy1
28	19	100.0	5	AAV79937	Aav79937 Beta-amy1
29	19	100.0	5	AAW67279	Aaw67279 Residues
30	19	100.0	5	AAW48489	Aaw48489 Antifibr1
31	19	100.0	5	AAW48481	Aaw48481 Antifibr1
32	19	100.0	5	AAW82637	Aaw82637 All-D pep
33	19	100.0	5	AAW82629	Aaw82629 All-D pep
34	19	100.0	5	AAW62803	Aaw62803 Residues
35	19	100.0	5	AAW71010	Aaw71010 Long form
36	19	100.0	5	AAW15847	Aaw15847 Beta-amy1
37	19	100.0	5	AAW05183	Aaw05183 Beta amy1
38	19	100.0	5	AAW05158	Aaw05158 Beta amy1
39	19	100.0	5	AAW96825	Aaw96825 Amyloid t
40	19	100.0	5	AAW96817	Aaw96817 Amyloid t
41	19	100.0	5	AAW84001	Aaw84001 Transglut
42	19	100.0	5	AAW11655	Aaw11655 Peptide #
43	19	100.0	5	AAW11663	Aaw11663 Peptide #
44	19	100.0	5	AAW82632	Aaw82632 Abeta fib
45	19	100.0	5	AAW35444	Aaw35444 Abeta pep
46	19	100.0	5	AAW35451	Aaw35451 Abeta pep
47	19	100.0	5	AAW43903	Aaw43903 Beta-amy1
48	19	100.0	5	AAW60931	Aaw60931 C-termina
49	19	100.0	5	AAW71329	Aaw71329 Pathologi
50	19	100.0	5	AAW64061	Aaw64061 Human bet
51	19	100.0	5	AAW64088	Aaw64088 Human bet
52	19	100.0	5	AAW97741	Aaw97741 Amyloid b
53	19	100.0	5	AAW64923	Aaw64923 Beta-amy1
54	19	100.0	5	AAW37328	Aaw37328 Antifibr1
55	19	100.0	5	AAW37276	Aaw37276 Vaccine a
56	19	100.0	5	AAW37354	Aaw37354 Beta-amy1
57	19	100.0	5	AAW37268	Aaw37268 Vaccine a
58	19	100.0	5	AAW37320	Aaw37320 Antifibr1
59	19	100.0	5	AAW37342	Aaw37342 Amyloid-b
60	19	100.0	5	AAW37382	Aaw37382 Amyloid-b
61	19	100.0	5	AAW37927	Aaw37927 Amyloid-t
62	19	100.0	5	AAW37935	Aaw37935 Amyloid-t
63	19	100.0	5	AAW259195	Aaw259195 Human amy
64	19	100.0	5	AAW23037	Aaw23037 Human amy
65	19	100.0	5	AAW28520	Aaw28520 Short amy
66	19	100.0	5	AAW64847	Aaw64847 A alpha f
67	19	100.0	6	AAW02331	Aaw02331 Beta-amy1
68	19	100.0	6	AAW02313	Aaw02313 Beta-amy1
69	19	100.0	6	AAW02314	Aaw02314 Beta-amy1
70	19	100.0	6	AAW45945	Aaw45945 Amyloid b
71	19	100.0	6	AAW45944	Aaw45944 Amyloid b
72	19	100.0	6	AAW29092	Aaw29092 A-beta-bi
73	19	100.0	6	AAW29091	Aaw29091 A-beta-bi
74	19	100.0	6	AAW29090	Aaw29090 A-beta-bi
75	19	100.0	6	AAW89378	Aaw89378 Beta-amy1
76	19	100.0	6	AAW89377	Aaw89377 Beta-amy1
77	19	100.0	6	AAW89388	Aaw89388 Beta-amy1
78	19	100.0	6	AAW48476	Aaw48476 Antifibr1
79	19	100.0	6	AAW48496	Aaw48496 Antifibr1
80	19	100.0	6	AAW82654	Aaw82654 All-D pep
81	19	100.0	6	AAW82657	Aaw82657 All-D pep
82	19	100.0	6	AAW82660	Aaw82660 All-D pep
83	19	100.0	6	AAW82663	Aaw82663 All-D pep
84	19	100.0	6	AAW82651	Aaw82651 All-D pep
85	19	100.0	6	AAW82632	Aaw82632 All-D pep
86	19	100.0	6	AAW71031	Aaw71031 Long form
87	19	100.0	6	AAW71009	Aaw71009 Long form
88	19	100.0	6	AAW71008	Aaw71008 Long form
89	19	100.0	6	AAW05177	Aaw05177 Beta amy1
90	19	100.0	6	AAW05156	Aaw05156 Beta amy1
91	19	100.0	6	AAW05157	Aaw05157 Beta amy1
92	19	100.0	6	AAW05189	Aaw05189 Beta amy1
93	19	100.0	6	AAW96820	Aaw96820 Amyloid t
94	19	100.0	6	AAW83305	Aaw83305 Amyloid-b
95	19	100.0	6	AAW11658	Aaw11658 Peptide #

97.	19	100.0	6	5	AU11911	Peptide #	170	19	100.0	7	7	ADD20746	ADD20746 Human bet
98	19	100.0	6	5	AU11650	Peptide #	171	19	100.0	7	7	ADP50855	ADP50855 Human bet
99	19	100.0	6	6	AAE35476	Abeta pep	172	19	100.0	7	8	ADJ64057	ADJ64057 Human bet
100	19	100.0	6	6	AAE35470	Abeta pep	173	19	100.0	7	8	ADJ64058	ADJ64058 Human bet
101	19	100.0	6	6	AAE35482	Abeta pep	174	19	100.0	7	8	ADP64922	ADP64922 Beta-amy1
102	19	100.0	6	6	AAE35445	Abeta pep	175	19	100.0	7	8	ADP64922	ADP64922 Beta-amy1
103	19	100.0	6	6	AAE35473	Abeta pep	176	19	100.0	7	8	ADQ37378	ADQ37378 Amyloid-b
104	19	100.0	6	6	AAE35479	Abeta pep	177	19	100.0	7	8	ADQ37350	ADQ37350 Vaccine a
105	19	100.0	6	6	AAE35434	Abeta pep	178	19	100.0	7	8	ADQ37379	ADQ37379 Amyloid-b
106	19	100.0	6	6	ADJ64060	Human bet	179	19	100.0	7	8	ADQ37314	ADQ37314 Antifibril
107	19	100.0	6	8	ADJ64059	Human bet	180	19	100.0	7	8	ADQ37263	ADQ37263 Vaccine a
108	19	100.0	6	8	ADJ64094	Human bet	181	19	100.0	7	8	ADQ37279	ADQ37279 Vaccine a
109	19	100.0	6	8	ADJ64082	Human bet	182	19	100.0	7	8	ADQ37330	ADQ37330 Antifibril
110	19	100.0	6	8	ADQ37300	Vaccine a	183	19	100.0	7	8	ADQ37331	ADQ37331 Antifibril
111	19	100.0	6	8	ADQ37271	Vaccine a	184	19	100.0	7	8	ADQ37351	ADQ37351 Beta-amy1
112	19	100.0	6	8	ADQ37380	Amyloid-b	185	19	100.0	7	9	ADY37922	ADY37922 Amyloid-c
113	19	100.0	6	8	ADQ37315	Antifibril	186	19	100.0	7	9	ADY37938	ADY37938 Amyloid-c
114	19	100.0	6	8	ADQ37335	Antifibril	187	19	100.0	7	9	ADY37937	ADY37937 Amyloid-c
115	19	100.0	6	8	ADQ37368	Beta-amy1	188	19	100.0	7	9	ADZ08903	ADZ08903 Human bet
116	19	100.0	6	8	ADQ37306	Vaccine a	189	19	100.0	8	2	AAE74105	AAE74105 P-selecti
117	19	100.0	6	8	ADQ37297	Vaccine a	190	19	100.0	8	2	AAE74104	AAE74104 P-selecti
118	19	100.0	6	8	ADQ37269	Vaccine a	191	19	100.0	8	2	AAE74099	AAE74099 P-selecti
119	19	100.0	6	8	ADQ37303	Vaccine a	192	19	100.0	8	2	AAW02310	AAW02310 Beta-amy1
120	19	100.0	6	8	ADQ37352	Beta-amy1	193	19	100.0	8	2	AAW45937	AAW45937 Amyloid b
121	19	100.0	6	8	ADQ37292	Vaccine a	194	19	100.0	8	2	AAW45967	AAW45967 Peptide d
122	19	100.0	6	8	ADQ37381	Amyloid-b	195	19	100.0	8	2	AAW45938	AAW45938 Amyloid b
123	19	100.0	6	8	ADQ37358	Vaccine a	196	19	100.0	8	2	AAW32551	AAW32551 Amyloidog
124	19	100.0	6	8	ADQ37294	Vaccine a	197	19	100.0	8	2	AAW89374	AAW89374 Beta-amy1
125	19	100.0	6	8	ADQ37353	Beta-amy1	198	19	100.0	8	4	AAE10663	AAE10663 Human amy
126	19	100.0	6	8	ADQ37323	Antifibril	199	19	100.0	8	4	AAE02615	AAE02615 Human amy
127	19	100.0	6	8	ADQ37370	Amyloid-b	200	19	100.0	8	5	ABG71005	ABG71005 Long form
128	19	100.0	6	9	ADY99107	Arromatic	201	19	100.0	8	5	ABH78624	ABH78624 Human alp
129	19	100.0	6	9	ADY37930	Amyloid-t	202	19	100.0	8	6	ABU05153	ABU05153 Beta amy1
130	19	100.0	6	9	ADY37948	Amyloid-t	203	19	100.0	8	6	ABU09765	ABU09765 Amyloidog
131	19	100.0	6	9	ADY37947	Amyloid-t	204	19	100.0	8	6	ABR61959	ABR61959 Human amy
132	19	100.0	6	9	AEA23039	Human bet	205	19	100.0	8	7	ABW00134	ABW00134 Beta-amy1
133	19	100.0	6	9	AAE45231	Beta amy1	206	19	100.0	8	8	ADJ64056	ADJ64056 Human bet
134	19	100.0	7	2	AAE88300	Non-amnes	207	19	100.0	8	8	ADQ37377	ADQ37377 Amyloid-b
135	19	100.0	7	2	AAE87921	Test pep	208	19	100.0	8	8	ADQ37385	ADQ37385 Antifibril
136	19	100.0	7	2	AAW02312	Beta-amy1	209	19	100.0	8	8	ADQ37349	ADQ37349 Beta-amy1
137	19	100.0	7	2	AAW02311	Beta-amy1	210	19	100.0	8	9	ADZ08900	ADZ08900 Human bet
138	19	100.0	7	2	AAW45940	Amyloid b	211	19	100.0	8	9	AAE51423	AAE51423 C-beta 1
139	19	100.0	7	2	AAW45941	Amyloid b	212	19	100.0	8	9	AAE51420	AAE51420 A 16-22-C
140	19	100.0	7	2	AAW89376	Beta-amy1	213	19	100.0	8	9	AAE62831	AAE62831 Immunocn
141	19	100.0	7	2	AAW89375	Beta-amy1	214	19	100.0	8	9	AAE62834	AAE62834 Immunocn
142	19	100.0	7	4	AAE67281	Residues	215	19	100.0	9	2	AAE45239	AAE45239 Mutant am
143	19	100.0	7	4	AAE48475	Antifibril	216	19	100.0	9	2	AAW45936	AAW45936 Amyloid b
144	19	100.0	7	4	AAE48492	Antifibril	217	19	100.0	9	4	AAW45935	AAW45935 Amyloid b
145	19	100.0	7	4	AAE48491	Antifibril	218	19	100.0	9	4	AAE48493	AAE48493 Antifibril
146	19	100.0	7	4	AAE82624	All-D pep	219	19	100.0	9	5	AAU11667	AAU11667 Human amy
147	19	100.0	7	4	AAE82640	All-D pep	220	19	100.0	9	5	AAU11667	AAU11667 Peptide #
148	19	100.0	7	4	AAE82639	All-D pep	221	19	100.0	9	6	ABE57517	ABE57517 Different
149	19	100.0	7	5	ABG71006	Long form	222	19	100.0	9	6	ABU79063	ABU79063 Aggregati
150	19	100.0	7	5	ABG71007	Long form	223	19	100.0	9	6	ABU79053	ABU79053 Aggregati
151	19	100.0	7	5	ABB05154	Beta amy1	224	19	100.0	9	6	AAE35436	AAE35436 Beta pep
152	19	100.0	7	5	ABB05155	Beta amy1	225	19	100.0	9	7	ADP90577	ADP90577 Control p
153	19	100.0	7	5	AAU96827	Amyloid c	226	19	100.0	9	7	ABR00186	ABR00186 Peptide #
154	19	100.0	7	5	AAU96812	Amyloid c	227	19	100.0	9	7	ABR00187	ABR00187 Peptide #
155	19	100.0	7	5	AAU96828	Amyloid c	228	19	100.0	9	7	ABR00197	ABR00197 Peptide #
156	19	100.0	7	5	ABR04920	Human amy	229	19	100.0	9	7	ADP94531	ADP94531 Human SIM
157	19	100.0	7	5	AAU11665	Peptide #	230	19	100.0	9	8	ADP36003	ADP36003 Amyloid b
158	19	100.0	7	5	AAU11649	Peptide #	231	19	100.0	9	8	ADP36002	ADP36002 Amyloid b
159	19	100.0	7	5	AAU11666	Peptide #	232	19	100.0	9	8	ADP35849	ADP35849 Amyloid b
160	19	100.0	7	6	ABR82630	Abeta fib	233	19	100.0	9	8	ADP35874	ADP35874 Amyloid b
161	19	100.0	7	6	AAE35439	Abeta pep	234	19	100.0	9	8	ADP35981	ADP35981 Amyloid b
162	19	100.0	7	6	AAE35454	Abeta pep	235	19	100.0	9	8	ADP35871	ADP35871 Amyloid b
163	19	100.0	7	6	AAE35453	Abeta pep	236	19	100.0	9	8	ADP35903	ADP35903 Amyloid b
164	19	100.0	7	6	ADA90152	Solid-pha	237	19	100.0	9	8	ADP44609	ADP44609 Radioliso
165	19	100.0	7	6	ADA90935	Solid-pha	238	19	100.0	9	8	ADQ37250	ADQ37250 Vaccine a
166	19	100.0	7	6	ADA90935	Solid-pha	239	19	100.0	9	8	ADQ37250	ADQ37250 Vaccine a
167	19	100.0	7	6	ADA90153	Anti-Abet	240	19	100.0	9	8	ADQ37332	ADQ37332 Antifibril
168	19	100.0	7	6	ADA90154	Anti-Abet	241	19	100.0	9	8	ABY02225	ABY02225 SARS coro
169	19	100.0	7	6	ADA90936	Solid-pha	242	19	100.0	9	8	ABY02266	ABY02266 SARS coro

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## OM protein - protein search, using sw model

Run on: May 19, 2006, 17:20:33 ; Search time 297 Seconds  
(Without alignments)  
12.458 Million cell updates/sec

Title: US-10-825-958-13  
Perfect score: 19  
Sequence: 1 KLVF 4

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 2849598 seqs, 925015592 residues

Total number of hits satisfying chosen parameters: 2849598

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : UniProt 7.2:\*  
1: uniprot\_sprot:\*  
2: uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	19	100.0	14	Q8IMS6_HUMAN	Q8IMS6 homo sapien
2	19	100.0	14	Q9U9H1_HUMAN	Q9U9H1 homo sapien
3	19	100.0	19	Q4XV14_PLACH	Q4XV14 plasmodium
4	19	100.0	19	Q692Y3_SOYBN	Q692Y3 glycine max
5	19	100.0	27	Q9UW68_9EURY	Q9UW68 thermococcu
6	19	100.0	28	Q4N1Z6_THERP	Q4N1Z6 cheilleria p
7	19	100.0	28	Q7RAW5_PLAYO	Q7RAW5 plasmodium
8	19	100.0	28	Q7RNI4_PLAYO	Q7RNI4 plasmodium
9	19	100.0	29	Q4RD54_TETNG	Q4RD54 tetradodon n
10	19	100.0	31	Q7R9H4_PLAYO	Q7R9H4 plasmodium
11	19	100.0	31	Q47XC8_COLP3	Q47XC8 colwellia p
12	19	100.0	33	Q9UCJ3_HUMAN	Q9UCJ3 homo sapien
13	19	100.0	35	Q4X2D2_PLACH	Q4X2D2 plasmodium
14	19	100.0	38	Q4YA98_PLACH	Q4YA98 plasmodium
15	19	100.0	39	Q7Z988_SCHPO	Q7Z988 schizosacch
16	19	100.0	39	Q7RSM3_PLAYO	Q7RSM3 plasmodium
17	19	100.0	39	Q8BGU3_MOUSE	Q8BGU3 m 10, 11 da
18	19	100.0	41	Q4YX8_PLACH	Q4YX8 plasmodium
19	19	100.0	41	Q8KEH6_CHLRE	Q8KEH6 chlorobium
20	19	100.0	42	Q5G1J6_GRAGR	Q5G1J6 grampos gri
21	19	100.0	42	Q5G1J7_TURTR	Q5G1J7 turislops tr
22	19	100.0	42	Q7M088_CAVPO	Q7M088 cavia porce
23	19	100.0	43	Q8AXZ2_ICRPU	Q8AXZ2 ictalurus p
24	19	100.0	43	Q3VNU9_9CHLB	Q3VNU9 pelodiccyon
25	19	100.0	44	Q4Y1H5_PLACH	Q4Y1H5 plasmodium
26	19	100.0	44	Q856G0_9CAUD	Q856G0 mycobacteri
27	19	100.0	45	Q72ZB2_PLACH	Q72ZB2 bacillus ce
28	19	100.0	47	Q5Z4F5_9EURY	Q5Z4F5 pyrococcus
29	19	100.0	48	Q54MK0_DICDI	Q54MK0 dictyosteli
30	19	100.0	48	Q9GR26_APHCO	Q9GR26 aphidius co
31	19	100.0	50	Q3DGC1_STRAG	Q3DGC1 streptococc
32	19	100.0	50	Q3XXS7_ENTFC	Q3XXS7 enterococcu
33	19	100.0	51	Q4Y6Z7_PLACH	Q4Y6Z7 plasmodium
34	19	100.0	51	Q4VKD5_9EUCB	Q4VKD5 meganycitph
35	19	100.0	51	Q4VKF3_9EUCB	Q4VKF3 meganycitph
36	19	100.0	51	Q72A51_DESVH	Q72A51 desulfovibr
37	19	100.0	51	Q8QMN2_COMFX	Q8QMN2 cowpox viru
38	19	100.0	52	Q8WZ99_HUMAN	Q8WZ99 homo sapien
39	19	100.0	52	Q7RGM2_PLAYO	Q7RGM2 plasmodium
40	19	100.0	52	Q9MEH0_9EUCB	Q9MEH0 meganycitph
41	19	100.0	53	Q7M1N5_SOYBN	Q7M1N5 glycine max
42	19	100.0	53	Q2SMU7_9GAMM	Q2SMU7 habella che
43	19	100.0	53	Q5XXM2_RICCN	Q5XXM2 rickettsia
44	19	100.0	54	Q4X433_PLACH	Q4X433 plasmodium
45	19	100.0	54	Q8REV2_THETN	Q8REV2 thermoaer
46	19	100.0	56	Q5HDA2_STRAC	Q5HDA2 staphylococ
47	19	100.0	57	A4_URSTN	Q29149 u amyloid b
48	19	100.0	57	Q7UFC9_RHOBA	Q7UFC9 rhodopirell
49	19	100.0	57	Q921T0_RICCN	Q921T0 rickettsia
50	19	100.0	58	A4_CANFA	Q28748 o amyloid b
51	19	100.0	58	A4_RABIT	Q28757 o amyloid b
52	19	100.0	58	A4_SHEEP	Q39653 small round
53	19	100.0	58	Q35G33_9CALI	Q28053 b amyloid b
54	19	100.0	59	A4_BOVIN	Q2H2V1 capra nubia
55	19	100.0	59	Q2H2T1_CAPNU	Q2H2V1 capra nubia
56	19	100.0	59	Q4T197_TETNG	Q4T197 tetradodon n
57	19	100.0	60	Q8KYD1_BACAN	Q8KYD1 bacillus an
58	19	100.0	60	Q6F0Z5_BACAN	Q6F0Z5 bacillus an
59	19	100.0	60	Q4RUF7_TETNG	Q4RUF7 tetradodon n
60	19	100.0	61	Q3ISR5_SHIBS	Q3ISR5 shigella bo
61	19	100.0	61	Q3YTD0_SHISS	Q3YTD0 shigella so
62	19	100.0	61	Q3YTX7_SHISS	Q3YTX7 shigella so
63	19	100.0	61	Q2NKK3_9MOLU	Q2NKK3 aster yellu
64	19	100.0	61	Q9AFZ0_SHIFL	Q9AFZ0 shigella fl
65	19	100.0	62	Q4YEM0_PLACH	Q4YEM0 plasmodium
66	19	100.0	62	Q2H2T8_CAPII	Q2H2T8 capra ibex
67	19	100.0	62	Q8W6C9_9VIRU	Q8W6C9 vibrio phag
68	19	100.0	62	Q30ZAB_STRSU	Q30ZAB streptococc
69	19	100.0	62	Q8E113_STRAS	Q8E113 streptococc
70	19	100.0	62	Q51CQ6_GADEN	Q51CQ6 human adeno
71	19	100.0	63	Q8EBJ7_PIG	Q8EBJ7 sus scrofa
72	19	100.0	63	Q598Z9_BALBO	Q598Z9 balenopter
73	19	100.0	63	Q59NRY_DROME	Q59NRY drosofila
74	19	100.0	64	Q3MQZ5_ANTST	Q3MQZ5 antechinus
75	19	100.0	64	Q3B457_PELLD	Q3B457 pelodiccyon
76	19	100.0	64	Q43GCI_9CHLB	Q43GCI chlorobium
77	19	100.0	64	Q720Z9_LEBIC	Q720Z9 leprospira
78	19	100.0	64	Q8F4T7_LEBPN	Q8F4T7 leprospira
79	19	100.0	65	Q94144_CABEL	Q94144 caenorhabdi
80	19	100.0	65	Q4TE84_TETNG	Q4TE84 tetradodon n
81	19	100.0	66	Q2H2S1_9CETA	Q2H2S1 capra pyren
82	19	100.0	66	Q2H2S2_CAPSI	Q2H2S2 capra sibir
83	19	100.0	66	Q2H2S7_CAPSI	Q2H2S7 capra sibir
84	19	100.0	66	Q2H2T7_CAPNU	Q2H2T7 capra nubia
85	19	100.0	66	Q2H2T9_CAPII	Q2H2T9 capra ibex
86	19	100.0	66	Q2H2U1_CAPCY	Q2H2U1 capra cauca
87	19	100.0	66	Q2H2U2_CAPCU	Q2H2U2 capra cauca
88	19	100.0	66	Q2H2U4_CAPCU	Q2H2U4 capra cauca
89	19	100.0	66	Q859S3_9VIRU	Q859S3 bacterioph
90	19	100.0	66	Q6F8Q6_ACTAD	Q6F8Q6 actinobact
91	19	100.0	66	Q8BDT1_STRMU	Q8BDT1 streptococ
92	19	100.0	67	Q3PYM6_NITRA	Q3PYM6 nitrobacter
93	19	100.0	67	Q5L2M7_GEOXA	Q5L2M7 geobacillus
94	19	100.0	67	Q921F4_RICCN	Q921F4 rickettsia
95	19	100.0	67	Q7OHU9_PPRXA	Q7OHU9 pseudorabie
96	19	100.0	68	Q7RAM0_PLAYO	Q7RAM0 plasmodium
97	19	100.0	68	Q6Z0U8_ORYSA	Q6Z0U8 oryza sativ
98	19	100.0	69	Q61G3_ARATH	Q61G3 arabidopsi
99	19	100.0	69	Q4Q9Z2_LEBMA	Q4Q9Z2 leishmania
100	19	100.0	70	Q4XID8_PLACH	Q4XID8 plasmodium
101	19	100.0	70	Q6HNO3_BACHK	Q6HNO3 bacillus th
102	19	100.0	71	Q4A9T5_MYCHJ	Q4A9T5 mycoplasma
103	19	100.0	71	Q3UTF7_BURPI	Q3UTF7 burkholderi
104	19	100.0	71	Q5F7S4_NEIG1	Q5F7S4 neisseria g

105	19	100.0	71	2	063TA0_BURPS	063ta0 burkholderi	178	19	100.0	81	2	08KX00_CHLITE	08kx00 chlorobium
106	19	100.0	71	2	08UCR6_AGRRT	08ucr6 agrobacteri	179	19	100.0	82	2	08HNX3_9HEMI	08hnx3 dactylospira
107	19	100.0	72	2	06CDK3_YARLT	06cdk3 yarrowia li	180	19	100.0	82	2	08KJX3_PROVU	08kjx3 proteus vul
108	19	100.0	72	2	025925_PLAFA	025925 plasmodium	181	19	100.0	82	2	05ICR2_ADE31	05icr2 human adeno
109	19	100.0	73	2	07P9F5_RICST	07p9f5 rickettsia	182	19	100.0	82	2	05ICT4_ADE09	05ict4 human adeno
110	19	100.0	73	2	07MV83_PORGI	07mv83 porphyromon	183	19	100.0	82	2	05ICU0_ADE03	05icu0 human adeno
111	19	100.0	73	2	05ICP4_GADEN	05icp4 human adeno	184	19	100.0	83	2	04XBH3_PLACH	04xbh3 plasmodium
112	19	100.0	73	2	05ICR6_GADEN	05icr6 human adeno	185	19	100.0	83	2	04YDE2_PLABE	04yde2 plasmodium
113	19	100.0	73	2	05ICR7_GADEN	05icr7 human adeno	186	19	100.0	83	2	07R7E5_PLAYO	07r7e5 plasmodium
114	19	100.0	74	2	0461Q9_DROWI	0461q9 drosophila	187	19	100.0	83	2	02LGH3_MAIZE	02lgh3 zea mays (m
115	19	100.0	74	2	05CJH6_CRYHO	05cjh6 cryptospori	188	19	100.0	83	2	02LGH4_SEITI	02lgh4 setaria ita
116	19	100.0	74	2	0936G7_STAUP	0936g7 staphylococ	189	19	100.0	83	2	02LGH5_PENAM	02lgh5 penicillium
117	19	100.0	74	2	05B0S7_GADEN	05b0s7 untyped hum	190	19	100.0	83	2	02LGH6_SORHL	02lgh6 sorghum hal
118	19	100.0	74	2	05ICP5_GADEN	05icp5 human adeno	191	19	100.0	83	2	02LGH7_PANMI	02lgh7 panicum mil
119	19	100.0	74	2	05ICR7_ADE16	05icr7 human adeno	192	19	100.0	83	2	08UC93_AGRRT	08uc93 agrobacteri
120	19	100.0	75	2	081UQ0_BACAN	081uq0 bacillus an	193	19	100.0	83	2	05ICR4_GADEN	05icr4 human adeno
121	19	100.0	75	2	05B0E0_GADEN	05b0e0 untyped hum	194	19	100.0	84	2	05ICT5_ADE08	05ict5 human adeno
122	19	100.0	75	2	05B0E2_GADEN	05b0e2 untyped hum	195	19	100.0	84	2	074N49_NANEO	074n49 nanorchaeu
123	19	100.0	75	2	05ICP9_GADEN	05icp9 human adeno	196	19	100.0	84	2	03C8K9_9CIOT	03c8k9 alkaliiphila
124	19	100.0	76	2	05ICQ7_GADEN	05icq7 human adeno	197	19	100.0	84	2	082WG5_NITRU	082wg5 nitrosomon
125	19	100.0	76	2	0592V4_LYMST	0592v4 lymanea sta	198	19	100.0	84	2	08YH11_BRUME	08yh11 bruceella me
126	19	100.0	76	2	08VW4_ECOLI	08vw4 escherichia	199	19	100.0	84	2	05ICR5_GADEN	05icr5 human adeno
127	19	100.0	76	2	05B0V2_GADEN	05b0v2 untyped hum	200	19	100.0	84	2	05ICT9_ADE04	05ict9 human adeno
128	19	100.0	76	2	05B0S9_GADEN	05b0s9 untyped hum	201	19	100.0	85	2	05BR10_SCHJA	05br10 schistosoma
129	19	100.0	76	2	05ICP3_GADEN	05icp3 human adeno	202	19	100.0	85	2	032EP0_SHIDS	032ep0 shigella dy
130	19	100.0	76	2	05ICR0_GADEN	05icr0 human adeno	203	19	100.0	85	2	03ENN2_BACTI	03enn2 bacillus th
131	19	100.0	76	2	09TBS2_TOXRU	09tbs2 toxostoma r	204	19	100.0	85	2	08GJL9_SYNP7	08gj19 synecchococ
132	19	100.0	76	2	09TBS6_PPASS	09tbs6 toxostoma l	205	19	100.0	85	2	05WZK4_SYNP6	05wzr4 synecchococ
133	19	100.0	77	2	054879_STRPN	054879 streptococc	206	19	100.0	85	2	09BAC8_RHILLO	09bac8 rhizobium l
134	19	100.0	77	2	05BQ48_GADEN	05bq48 untyped hum	207	19	100.0	85	2	05ICQ1_GADEN	05icq1 human adeno
135	19	100.0	77	2	05B0S5_GADEN	05b0s5 untyped hum	208	19	100.0	85	2	05IC99_GADEN	05ic99 human adeno
136	19	100.0	77	2	05B0E4_GADEN	05b0e4 untyped hum	209	19	100.0	85	2	09TBO6_PPASS	09tbo6 toxostoma l
137	19	100.0	77	2	05ICP2_GADEN	05icp2 human adeno	210	19	100.0	85	2	09TBO7_PPASS	09tbo7 toxostoma l
138	19	100.0	77	2	05ICP7_GADEN	05icp7 human adeno	211	19	100.0	85	2	09TBO8_PPASS	09tbo8 toxostoma x
139	19	100.0	77	2	05ICP8_GADEN	05icp8 human adeno	212	19	100.0	85	2	09TBO9_PPASS	09tbo9 toxostoma c
140	19	100.0	77	2	05ICQ0_GADEN	05icq0 human adeno	213	19	100.0	85	2	09TBR2_9PASS	09tbr2 toxostoma b
141	19	100.0	77	2	05ICQ4_GADEN	05icq4 human adeno	214	19	100.0	85	2	09TBR4_9PASS	09tbr4 oreoscoptes
142	19	100.0	77	2	05ICR1_GADEN	05icr1 human adeno	215	19	100.0	85	2	09TBR6_9PASS	09tbr6 toxostoma c
143	19	100.0	77	2	05ICR8_GADEN	05icr8 human adeno	216	19	100.0	85	2	09TBR8_9PASS	09tbr8 toxostoma c
144	19	100.0	77	2	05ICR1_GADEN	05icr1 human adeno	217	19	100.0	85	2	09TBS0_PPASS	09tbs0 toxostoma o
145	19	100.0	77	2	05ICR3_GADEN	05icr3 human adeno	218	19	100.0	85	2	09TBS4_TOXGU	09tbs4 toxostoma g
146	19	100.0	77	2	05ICR6_ADE17	05icr6 human adeno	219	19	100.0	86	1	RL23_METUA	P54016 methanococ
147	19	100.0	78	2	05ICR3_GADEN	05icr3 human adeno	220	19	100.0	86	2	0311I6_PSEMT	0311i6 pseudocalter
148	19	100.0	78	2	09HPR1_HALSA	09hpr1 halobacteri	221	19	100.0	86	2	043TH0_SOUUS	043th0 solibacter
149	19	100.0	78	2	06BXW0_DBEHA	06bxw0 debaryomyce	222	19	100.0	87	2	04WPY6_ASPPR	04wpv6 aspergillus
150	19	100.0	78	2	06ICG5_DROME	06icg5 drosophila	223	19	100.0	87	2	08IGC2_DROME	08icg2 drosophila
151	19	100.0	78	2	03Y5V2_CITLA	03y5v2 citrullus l	224	19	100.0	87	2	03CYJ4_STRAG	03cyj4 streptococ
152	19	100.0	78	2	05B0S6_GADEN	05b0s6 untyped hum	225	19	100.0	87	2	03DQP5_STRAG	03dqp5 streptococ
153	19	100.0	78	2	05ICQ8_ADE35	05icq8 human adeno	226	19	100.0	87	2	05ICT6_ADE07	05ict6 human adeno
154	19	100.0	78	2	05ICR5_ADE18	05icr5 human adeno	227	19	100.0	88	2	06LGG9_PHOPR	06lgg9 photobacter
155	19	100.0	78	2	05ICR8_ADE15	05icr8 human adeno	228	19	100.0	88	2	03US56_MOUSE	03us56 mus musculu
156	19	100.0	78	2	05ICR1_ADE12	05icr1 human adeno	229	19	100.0	89	2	03SAR5_9EURY	03sar5 uncultured
157	19	100.0	79	2	0969F3_HUMAN	0969f3 homo sapien	230	19	100.0	89	2	03SEEL5_DICDI	03sel5 dictyostell
158	19	100.0	79	2	0711O2_IACDL	0711o2 lactobacill	231	19	100.0	89	2	0878R3_STRP3	0878r3 streptococ
159	19	100.0	79	2	05HMR0_STAEQ	05hmr0 staphylococ	232	19	100.0	89	2	06MDW2_PARUM	06mdw2 paracalamyd
160	19	100.0	79	2	081YZ4_BACAN	081yz4 bacillus an	233	19	100.0	90	2	09HMB9_HALSA	09hmb9 halobacteri
161	19	100.0	79	2	092G77_RICCN	092g77 rickettsia	234	19	100.0	90	2	053R27_HUMAN	053r27 homo sapien
162	19	100.0	79	2	0354E3_CRICR	0354e3 cricetulus	235	19	100.0	90	2	05XN00_MANES	05xng0 manihot ecc
163	19	100.0	79	2	05B0S1_GADEN	05b0s1 untyped hum	236	19	100.0	90	2	03RGP8_XYLFA	03xrf8 xyella fab
164	19	100.0	79	2	05ICQ9_GADEN	05icq9 human adeno	237	19	100.0	90	2	03Y3G3_ENTFC	03y3g3 enterococcu
165	19	100.0	79	2	05ICR2_GADEN	05icr2 human adeno	238	19	100.0	90	2	09FPF74_XYLFA	09fpf74 xyella fab
166	19	100.0	80	2	05BSG2_SCHJA	05bsg2 schistosoma	239	19	100.0	90	2	09B8C5_PPASS	09b8c5 nitrosomon
167	19	100.0	80	2	02SLP8_SCHAM	02slp8 habella che	240	19	100.0	91	1	SPC1_ASHOO	07481 ashbya goss
168	19	100.0	80	2	03Y0Z0_ENTFC	03y0z0 enterococcu	241	19	100.0	91	1	Y909_METUA	05819 methanococ
169	19	100.0	80	2	063BR3_BACCE	063br3 bacillus ce	242	19	100.0	91	2	064PX0_BACFR	064px0 bacteroides
170	19	100.0	80	2	05ICP6_GADEN	05icp6 human adeno	243	19	100.0	91	2	07UDV7_RHOBA	07udv7 rhodospirill
171	19	100.0	80	2	05ICQ5_GADEN	05icq5 human adeno	244	19	100.0	91	2	092HJ5_RICCN	092hj5 rickettsia
172	19	100.0	80	2	05ICR9_GADEN	05icr9 human adeno	245	19	100.0	92	2	029222_PIG	029222 sus scrofa
173	19	100.0	80	2	05ICR0_GADEN	05icr0 human adeno	246	19	100.0	92	2	08W306_SIVCO	08w3g6 silene cont
174	19	100.0	80	2	05ICR4_GADEN	05icr4 human adeno	247	19	100.0	92	2	05WFA6_BACSK	05wfa6 bacillus cl
175	19	100.0	80	2	05ICR0_GADEN	05icr0 human adeno	248	19	100.0	92	2	05ICR3_GADEN	05icr3 human adeno
176	19	100.0	80	2	05ICR2_GADEN	05icr2 human adeno	249	19	100.0	93	2	06W4Q5_VIBAN	06w4q5 vibrio angu
177	19	100.0	81	2	0961B3_PLAF7	0961b3 plasmodium	250	19	100.0	93	2	09B8C4_PPASS	09b8c4 toxostoma c

GenCore version 5.1.8  
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OM protein - protein search, using sw model

Run on: May 19, 2006, 17:24:34 ; Search time 38 Seconds  
(Without alignments)  
10.128 Million cell updates/sec

Title: US-10-825-958-13  
Perfect score: 19  
Sequence: 1 KLVF 4

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues  
Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : PIR 80:\*  
1: dir1:\*  
2: dir2:\*  
3: dir3:\*  
4: dir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the change being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	19	100.0	16	2	F41299
2	19	100.0	26	2	G32502
3	19	100.0	29	2	C47719
4	19	100.0	30	2	B31461
5	19	100.0	31	2	F31461
6	19	100.0	32	2	A32502
7	19	100.0	32	2	D32502
8	19	100.0	32	2	D31461
9	19	100.0	33	2	A31461
10	19	100.0	33	2	E32502
11	19	100.0	33	2	B32540
12	19	100.0	33	2	I31461
13	19	100.0	33	2	B31461
14	19	100.0	33	2	S23094
15	19	100.0	34	2	C31461
16	19	100.0	34	2	H31461
17	19	100.0	34	2	I32502
18	19	100.0	36	2	C32502
19	19	100.0	36	2	H32502
20	19	100.0	36	2	A32540
21	19	100.0	42	2	PN0512
22	19	100.0	47	2	PC4133
23	19	100.0	53	2	PS0009
24	19	100.0	57	2	A60045
25	19	100.0	57	2	F60045
26	19	100.0	57	2	D60045
27	19	100.0	57	2	E60045
28	19	100.0	57	2	G60045
29	19	100.0	57	2	B60045

30	19	100.0	57	2	D97742	hypothetical prote
31	19	100.0	67	2	B97758	hypothetical prote
32	19	100.0	69	2	T46201	protein translocat
33	19	100.0	69	2	B31979	peptidyl-dipectida
34	19	100.0	71	2	AB2884	hypothetical prote
35	19	100.0	72	2	S28793	major merizote su
36	19	100.0	73	2	A38883	rab protein Rab6 -
37	19	100.0	75	2	S35774	T-cell receptor al
38	19	100.0	78	2	B84305	hypothetical prote
39	19	100.0	79	2	C97829	hypothetical prote
40	19	100.0	81	2	H71614	protein translocat
41	19	100.0	82	2	PQ0438	Alzheimer's diseas
42	19	100.0	83	2	AD2896	hypothetical prote
43	19	100.0	84	2	AC3376	hypothetical prote
44	19	100.0	86	1	C64322	ribosomal protein
45	19	100.0	86	2	B44530	T-cell receptor al
46	19	100.0	90	2	H84410	hypothetical prote
47	19	100.0	90	2	D82760	hypothetical prote
48	19	100.0	91	2	E64413	hypothetical prote
49	19	100.0	91	2	H97796	RP534 protein homo
50	19	100.0	94	2	S61934	signal peptidase 1
51	19	100.0	95	1	BORR3	prostatic steroid
52	19	100.0	96	2	T25103	hypothetical prote
53	19	100.0	97	2	D64600	conserved hypotet
54	19	100.0	97	2	C71913	hypothetical prote
55	19	100.0	99	2	F95064	ribosomal protein
56	19	100.0	99	2	H97931	conserved hypotet
57	19	100.0	100	2	F83836	transcription regu
58	19	100.0	100	2	AF0773	hypothetical prote
59	19	100.0	101	2	AI1753	Ori47 [bacterioph
60	19	100.0	105	2	S42212	hydroxymethylgluta
61	19	100.0	105	2	S17345	hydroxymethylgluta
62	19	100.0	106	2	S43069	hypothetical prote
63	19	100.0	107	2	F86869	hypothetical prote
64	19	100.0	109	1	A44275	nonstructural prot
65	19	100.0	109	1	MN1HB2	nonstructural prot
66	19	100.0	109	2	S58186	nonstructural prot
67	19	100.0	109	2	S58182	nonstructural prot
68	19	100.0	110	2	A24092	T-cell receptor al
69	19	100.0	110	2	AI1856	hypothetical prote
70	19	100.0	110	2	A24444	hypothetical prote
71	19	100.0	112	2	S73078	hypothetical prote
72	19	100.0	112	2	T47326	hypothetical prote
73	19	100.0	113	4	I39320	T cell receptor al
74	19	100.0	116	2	F72419	hypothetical prote
75	19	100.0	116	2	E90716	hypothetical prote
76	19	100.0	116	2	T05517	absorbic acid-indu
77	19	100.0	117	2	H71431	hypothetical prote
78	19	100.0	117	2	T13210	minor capsid prote
79	19	100.0	119	2	AC0080	probable dihydron
80	19	100.0	120	2	AE0892	dihydroneopterin a
81	19	100.0	120	2	C26945	T-cell receptor de
82	19	100.0	121	2	S23781	insertion sequence
83	19	100.0	122	1	S58649	ribosomal protein
84	19	100.0	122	2	AG1887	hypothetical prote
85	19	100.0	122	2	E84154	cadmium-binding pr
86	19	100.0	122	2	S73009	hypothetical prote
87	19	100.0	123	1	H65093	probable dihydron
88	19	100.0	123	1	D85966	probable kinase yg
89	19	100.0	123	2	E91121	probable kinase (l
90	19	100.0	123	2	PL0032	T-cell receptor de
91	19	100.0	124	2	A70873	probable trxa prot
92	19	100.0	126	2	H69767	cytochrome-c oxida
93	19	100.0	127	1	CCR2V	cytochrome c2 prec
94	19	100.0	128	2	G86629	hypothetical prote
95	19	100.0	128	2	AC3428	transposase BMB14
96	19	100.0	129	2	S78103	T-cell receptor de
97	19	100.0	130	2	D29774	T-cell receptor al
98	19	100.0	131	2	E24092	T-cell receptor al
99	19	100.0	133	2	E49487	long-chain-fatty-a
100	19	100.0	133	2	S57886	T cell receptor al
101	19	100.0	133	2	G45893	T-cell receptor al
102	19	100.0	133	2	G45893	T-cell receptor al



103	19	100.0	134	2	S57890	T cell receptor Hw	176	19	100.0	190	2	A59418	kuntz type subcl1
104	19	100.0	135	2	T13489	T-cell receptor al	177	19	100.0	190	2	G85542	glycoprotein/poly
105	19	100.0	136	2	C90254	hypothetical prote	178	19	100.0	190	2	G90692	glycoprotein/poly
106	19	100.0	137	2	S03477	T-cell receptor al	179	19	100.0	190	2	B64775	probable lipoprote
107	19	100.0	139	2	A70426	8-OXO-dGTPase doma	180	19	100.0	191	2	C64376	membrane protein h
108	19	100.0	140	2	B95049	hypothetical prote	181	19	100.0	191	2	E30754	hypothetical prote
109	19	100.0	140	2	H97919	(3R)-hydroxymyrist	182	19	100.0	191	2	E85607	probable tellurium
110	19	100.0	141	2	PL0045	T-cell receptor al	183	19	100.0	191	2	D90798	probable tellurium
111	19	100.0	142	2	D95237	phosphotyrosine pr	184	19	100.0	193	1	RDBPT4	dihydrofolate redu
112	19	100.0	142	2	E98101	conserved hypochet	185	19	100.0	193	2	T29706	hypothetical prote
113	19	100.0	142	2	D75134	T-cell receptor de	186	19	100.0	194	2	T50787	hypothetical prote
114	19	100.0	143	2	JL0082	hypothetical prote	187	19	100.0	194	2	S21859	hypothetical prote
115	19	100.0	144	2	B30471	hypothetical prote	188	19	100.0	194	2	F64025	hypothetical prote
116	19	100.0	144	2	A86732	hypothetical prote	189	19	100.0	198	2	S39543	hypothetical prote
117	19	100.0	144	2	AC2572	hypothetical prote	190	19	100.0	198	2	F95139	hemolysin A, proba
118	19	100.0	146	2	B64246	ribosomal protein	191	19	100.0	199	2	E67556	telurium resistanc
119	19	100.0	146	2	B97426	flagellar protein	192	19	100.0	199	2	PQ0542	polyprotein - suga
120	19	100.0	146	2	AH2258	hypothetical prote	193	19	100.0	199	2	H72242	flagellar L-ring p
121	19	100.0	147	2	S76050	hypothetical prote	194	19	100.0	199	2	T20927	hypothetical prote
122	19	100.0	152	2	F86473	hypothetical prote	195	19	100.0	201	2	S12789	hypothetical prote
123	19	100.0	152	2	T06645	hypothetical prote	196	19	100.0	201	2	C97074	hypothetical prote
124	19	100.0	156	1	B64021	hypothetical prote	197	19	100.0	201	2	F69988	hypothetical prote
125	19	100.0	157	2	E97424	hypothetical prote	198	19	100.0	202	2	S21346	probable pol polyp
126	19	100.0	157	2	AD2642	conserved hypochet	199	19	100.0	203	2	JQ1091	trypsin inhibitor
127	19	100.0	158	2	E86191	hypothetical prote	200	19	100.0	203	2	T02868	probable GTP-bind1
128	19	100.0	159	2	AF1372	hypothetical prote	201	19	100.0	203	2	T24042	trypsin inhibitor
129	19	100.0	159	2	AD1742	proteins involved 1	202	19	100.0	204	2	JQ1092	trypsin inhibitor
130	19	100.0	159	2	A64672	hypothetical prote	203	19	100.0	204	2	S70149	DNA-invertase - Xa
131	19	100.0	159	2	H71845	hypothetical prote	204	19	100.0	204	2	T45948	hypothetical prote
132	19	100.0	159	2	H83279	hypothetical prote	205	19	100.0	205	2	S31127	GTP-binding prote
133	19	100.0	160	2	H83673	PTS system, galact	206	19	100.0	205	2	T34375	hypothetical prote
134	19	100.0	160	2	AE1485	hypothetical prote	207	19	100.0	206	2	JC7311	20K protein - soyb
135	19	100.0	162	2	AB2644	flagellar protein	208	19	100.0	207	2	T50814	GTP-binding prote
136	19	100.0	164	2	H64669	ribosomal protein	209	19	100.0	207	2	H84610	probable GTP-bind1
137	19	100.0	164	2	D71846	thiol peroxidase f	210	19	100.0	207	2	T08520	DNA-invertase - En
138	19	100.0	165	2	D90600	hypothetical prote	211	19	100.0	207	2	S32180	DNA-invertase - Kl
139	19	100.0	165	2	H97142	baie 19.5K protein	212	19	100.0	208	2	AF3538	uracil phosphoribo
140	19	100.0	166	2	D37844	hypothetical prote	213	19	100.0	208	2	S49196	Kuntz trypsin inh
141	19	100.0	166	2	D87664	hypothetical prote	214	19	100.0	208	2	G34323	GTP-binding prote
142	19	100.0	167	2	A32646	peroxisomal membra	215	19	100.0	208	2	T03627	GTP-binding prote
143	19	100.0	169	2	E86502	CT303 hypothetical	216	19	100.0	208	2	T01588	GTP-binding prote
144	19	100.0	169	2	E72121	hypothetical prote	217	19	100.0	208	2	F64244	ATP synthase B cha
145	19	100.0	169	2	D90720	hypothetical prote	218	19	100.0	208	2	D64380	conserved hypochet
146	19	100.0	169	2	B85571	hypothetical prote	219	19	100.0	208	2	D88961	uracil phosphoribo
147	19	100.0	169	2	B64806	hypothetical prote	220	19	100.0	209	2	A12592	uracil phosphoribo
148	19	100.0	169	2	PC4143	hypothetical 169 p	221	19	100.0	209	2	C97375	uracil phosphoribo
149	19	100.0	170	2	E81375	hypothetical prote	222	19	100.0	209	2	C87530	uracil phosphoribo
150	19	100.0	171	2	E70219	hypothetical prote	223	19	100.0	209	2	D95186	conserved hypochet
151	19	100.0	171	2	PC2038	smoach muscle proc	224	19	100.0	209	2	E98053	hypothetical prote
152	19	100.0	171	2	B87626	conserved hypochet	225	19	100.0	210	2	B87640	conserved hypochet
153	19	100.0	171	2	P90266	hypothetical prote	226	19	100.0	210	2	A85018	probable copper-co
154	19	100.0	171	2	D81278	probable periplasm	227	19	100.0	214	2	T06095	GTP-binding prote
155	19	100.0	173	2	C81549	conserved hypochet	228	19	100.0	214	2	T47892	hypothetical prote
156	19	100.0	175	2	G96535	hypothetical prote	229	19	100.0	214	2	JC7899	glutathione transf
157	19	100.0	176	1	A44056	22K protein - feil	230	19	100.0	215	2	S74602	hypothetical prote
158	19	100.0	176	2	A49234	dUDP-4-dehydrotham	231	19	100.0	215	2	F72412	hypothetical prote
159	19	100.0	176	2	G90357	hypothetical prote	232	19	100.0	216	2	JQ0968	trypsin inhibitor
160	19	100.0	176	2	T22614	hypothetical prote	233	19	100.0	216	2	AF3513	probable transaldo
161	19	100.0	179	2	S64843	hypothetical prote	234	19	100.0	216	2	T50314	probable human pop
162	19	100.0	181	1	TISYC	trypsin inhibitor	235	19	100.0	217	1	TISY	trypsin inhibitor
163	19	100.0	181	1	TISYB	trypsin inhibitor	236	19	100.0	217	2	S19190	trypsin inhibitor
164	19	100.0	182	2	T36787	probable NTP pyrop	237	19	100.0	217	2	AG3623	GTP-binding prote
165	19	100.0	182	2	E75597	probable lipopolys	238	19	100.0	217	2	F97405	GTP-binding prote
166	19	100.0	182	2	T40976	hypothetical prote	239	19	100.0	219	2	A64043	uracil-DNA glycosy
167	19	100.0	183	2	UX0311	kuntz type subcl1	240	19	100.0	220	1	A33872	microtubulin precurs
168	19	100.0	183	2	S76453	hypothetical prote	241	19	100.0	220	2	H81048	biopolymer transpo
169	19	100.0	186	2	T06911	H+-transporting tw	242	19	100.0	220	2	C87601	glutathione S-tran
170	19	100.0	186	2	T50672	probable zinc fing	243	19	100.0	222	2	T26213	hypothetical prote
171	19	100.0	187	2	F71063	protein F07G6.7 [i	244	19	100.0	224	1	MMWZRL	26.3K late gene tr
172	19	100.0	189	2	G89468	conserved hypochet	245	19	100.0	224	2	F71934	molybdenum ABC tran
173	19	100.0	189	2	AE0560	kuntz type subcl1	246	19	100.0	224	2	B64579	molybdenum ABC tra
174	19	100.0	190	2	UX0310	kuntz type subcl1	247	19	100.0	224	2	C36848	AZL protein - vari
175	19	100.0	190	2	A59416	kuntz type subcl1	248	19	100.0	224	2	G72163	AZL protein - vari

## Protein Sequence Searches - February 2005

All of the sequence databases on ABSS have recently been updated.

- Please note that the curators of the UniProt database have purged some temporary accession numbers from the most recent version of UniProt. These sequences have been assigned new permanent accession numbers. The new UniProt record may not contain the previous temporary accession number.
- If you encounter an accession number from an older search run against UniProt (results file extension .rnp) that can no longer be found in the database, the permanent record with the new accession number can be found by searching the old accession number in the UniProt Protein Archive database (UniPARC) at:

<http://www.pir.uniprot.org/database/archive.shtml>

If you have any questions regarding this information or your results, please contact any STIC searcher.

**When submitting sequence search results for scanning into IFW, please include a copy of this attachment to assist any future Examiners or members of the public who may encounter UniProt temporary accession numbers.**

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OM protein - protein search, using sw model

Run on: May 19, 2006, 17:30:14 ; Search time 50 Seconds

(without alignments)  
7.002 Million cell updates/sec.

Title: US-10-825-958-13

Perfect score: 19

Sequence: 1 KLVF 4

Scoring table: BIOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 1000 summaries

Database :

Issued Patents\_AA:\*

- 1: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/5/COMB.pep:\*
- 2: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/6/COMB.pep:\*
- 3: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/7/COMB.pep:\*
- 4: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/H/COMB.pep:\*
- 5: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/PCTUS/COMB.pep:\*
- 6: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/RE/COMB.pep:\*
- 7: /EMC\_Celerra\_SIDS3/ptodata/2/iaa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	19	100.0	4	2	US-08-970-833-1
2	19	100.0	4	2	US-08-664-379B-17
3	19	100.0	4	2	US-09-095-106A-25
4	19	100.0	4	2	US-09-747-408-6
5	19	100.0	4	2	US-09-747-408-14
6	19	100.0	5	1	US-08-127-904-15
7	19	100.0	5	1	US-08-612-785B-10
8	19	100.0	5	2	US-08-970-833-2
9	19	100.0	5	2	US-08-703-675C-46
10	19	100.0	5	2	US-09-243-724-25
11	19	100.0	5	2	US-09-243-724-25
12	19	100.0	5	2	US-08-617-267C-10
13	19	100.0	5	2	US-08-617-267C-37
14	19	100.0	5	2	US-09-095-106A-1
15	19	100.0	5	2	US-09-095-106A-19
16	19	100.0	5	2	US-09-095-106A-43
17	19	100.0	5	2	US-09-747-408-8
18	19	100.0	5	2	US-09-747-408-16
19	19	100.0	5	5	PCT-US94-10475-15
20	19	100.0	6	1	US-08-612-785B-8
21	19	100.0	6	1	US-08-612-785B-9
22	19	100.0	6	1	US-08-612-785B-31
23	19	100.0	6	2	US-08-664-379B-19
24	19	100.0	6	2	US-08-703-675C-31
25	19	100.0	6	2	US-08-703-675C-32
26	19	100.0	6	2	US-08-703-675C-44

27	19	100.0	6	2	US-09-242-724-24	Sequence 24, Appl
28	19	100.0	6	2	US-09-242-724-27	Sequence 27, Appl
29	19	100.0	6	2	US-09-242-724-30	Sequence 30, Appl
30	19	100.0	6	2	US-09-242-724-31	Sequence 31, Appl
31	19	100.0	6	2	US-09-242-724-33	Sequence 33, Appl
32	19	100.0	6	2	US-08-617-267C-8	Sequence 8, Appl
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35	19	100.0	6	2	US-08-617-267C-43	Sequence 43, Appl
36	19	100.0	6	2	US-09-095-106A-5	Sequence 5, Appl
37	19	100.0	6	2	US-09-095-106A-15	Sequence 15, Appl
38	19	100.0	6	2	US-09-747-408-3	Sequence 3, Appl
39	19	100.0	6	2	US-09-747-408-11	Sequence 11, Appl
40	19	100.0	6	2	US-09-747-408-24	Sequence 24, Appl
41	19	100.0	7	1	US-08-127-904-14	Sequence 14, Appl
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43	19	100.0	7	1	US-08-612-785B-7	Sequence 7, Appl
44	19	100.0	7	2	US-08-703-675C-29	Sequence 29, Appl
45	19	100.0	7	2	US-08-703-675C-30	Sequence 30, Appl
46	19	100.0	7	2	US-08-617-267C-6	Sequence 6, Appl
47	19	100.0	7	2	US-08-617-267C-7	Sequence 7, Appl
48	19	100.0	7	2	US-09-244-709A-13	Sequence 13, Appl
49	19	100.0	7	2	US-09-095-106A-11	Sequence 11, Appl
50	19	100.0	7	2	US-09-095-106A-12	Sequence 12, Appl
51	19	100.0	7	2	US-09-747-408-2	Sequence 2, Appl
52	19	100.0	7	2	US-09-747-408-18	Sequence 18, Appl
53	19	100.0	7	2	US-09-747-408-19	Sequence 19, Appl
54	19	100.0	7	5	PCT-US94-10475-14	Sequence 14, Appl
55	19	100.0	8	1	US-08-457-804-1	Sequence 1, Appl
56	19	100.0	8	1	US-08-457-804-6	Sequence 6, Appl
57	19	100.0	8	1	US-08-457-804-7	Sequence 7, Appl
58	19	100.0	8	1	US-08-612-785B-5	Sequence 5, Appl
59	19	100.0	8	1	US-08-630-645-1	Sequence 1, Appl
60	19	100.0	8	2	US-08-703-675C-28	Sequence 28, Appl
61	19	100.0	8	2	US-08-617-267C-5	Sequence 5, Appl
62	19	100.0	8	2	US-09-095-106A-8	Sequence 8, Appl
63	19	100.0	8	2	US-09-095-106A-9	Sequence 9, Appl
64	19	100.0	8	2	US-08-766-596A-44	Sequence 44, Appl
65	19	100.0	8	2	US-08-766-596A-53	Sequence 53, Appl
66	19	100.0	8	2	US-09-668-314C-73	Sequence 73, Appl
67	19	100.0	8	5	PCT-US96-10220-1	Sequence 1, Appl
68	19	100.0	9	2	US-09-244-709A-4	Sequence 4, Appl
69	19	100.0	9	2	US-09-095-106A-6	Sequence 6, Appl
70	19	100.0	9	2	US-09-095-106A-7	Sequence 7, Appl
71	19	100.0	9	2	US-08-766-596A-54	Sequence 54, Appl
72	19	100.0	9	2	US-08-766-596A-64	Sequence 64, Appl
73	19	100.0	9	2	US-09-747-408-20	Sequence 20, Appl
74	19	100.0	10	2	US-08-970-833-3	Sequence 3, Appl
75	19	100.0	10	2	US-09-095-106A-2	Sequence 2, Appl
76	19	100.0	10	2	US-09-724-961-18	Sequence 18, Appl
77	19	100.0	10	2	US-09-724-961-19	Sequence 19, Appl
78	19	100.0	10	2	US-09-724-961-20	Sequence 20, Appl
79	19	100.0	10	2	US-09-724-961-21	Sequence 21, Appl
80	19	100.0	10	2	US-09-724-961-22	Sequence 22, Appl
81	19	100.0	10	2	US-09-724-961-23	Sequence 23, Appl
82	19	100.0	10	2	US-09-724-961-24	Sequence 24, Appl
83	19	100.0	10	2	US-09-580-018-18	Sequence 18, Appl
84	19	100.0	10	2	US-09-580-018-19	Sequence 19, Appl
85	19	100.0	10	2	US-09-580-018-20	Sequence 20, Appl
86	19	100.0	10	2	US-09-580-018-21	Sequence 21, Appl
87	19	100.0	10	2	US-09-580-018-22	Sequence 22, Appl
88	19	100.0	10	2	US-09-580-018-23	Sequence 23, Appl
89	19	100.0	10	2	US-09-580-018-24	Sequence 24, Appl
90	19	100.0	10	2	US-09-724-551-18	Sequence 18, Appl
91	19	100.0	10	2	US-09-724-551-19	Sequence 19, Appl
92	19	100.0	10	2	US-09-724-551-20	Sequence 20, Appl
93	19	100.0	10	2	US-09-724-551-21	Sequence 21, Appl
94	19	100.0	10	2	US-09-724-551-22	Sequence 22, Appl
95	19	100.0	10	2	US-09-724-551-23	Sequence 23, Appl
96	19	100.0	10	2	US-09-724-551-24	Sequence 24, Appl
97	19	100.0	10	2	US-09-724-940-18	Sequence 18, Appl
98	19	100.0	10	2	US-09-724-940-19	Sequence 19, Appl
99	19	100.0	10	2	US-09-724-940-19	Sequence 19, Appl

100	19	100.0	10	2	US-09-724-940-20	Sequence 20, Appl	173	19	100.0	23	1	US-08-505-486-75	Sequence 75, Appl
101	19	100.0	10	2	US-09-724-940-21	Sequence 21, Appl	174	19	100.0	23	2	US-08-801-028-75	Sequence 75, Appl
102	19	100.0	10	2	US-09-724-940-22	Sequence 22, Appl	175	19	100.0	23	2	US-09-340-154-75	Sequence 75, Appl
103	19	100.0	10	2	US-09-724-940-23	Sequence 23, Appl	176	19	100.0	23	5	US-09-482-611B-75	Sequence 75, Appl
104	19	100.0	10	2	US-09-724-940-24	Sequence 24, Appl	177	19	100.0	23	5	PCT-US95-09338-75	Sequence 75, Appl
105	19	100.0	11	1	US-08-630-640-14	Sequence 14, Appl	178	19	100.0	23	5	PCT-US95-09339-75	Sequence 75, Appl
106	19	100.0	11	2	US-08-970-833-8	Sequence 8, Appl	179	19	100.0	26	1	US-08-304-585-7	Sequence 7, Appl
107	19	100.0	11	2	US-08-766-596A-14	Sequence 14, Appl	180	19	100.0	27	1	US-08-141-324-11	Sequence 11, Appl
108	19	100.0	11	2	US-08-766-596A-68	Sequence 68, Appl	181	19	100.0	27	1	US-08-141-324-12	Sequence 12, Appl
109	19	100.0	11	2	US-09-988-842-9	Sequence 9, Appl	182	19	100.0	27	1	US-08-541-902-11	Sequence 11, Appl
110	19	100.0	11	2	US-09-988-842-25	Sequence 25, Appl	183	19	100.0	27	1	US-08-541-902-12	Sequence 12, Appl
111	19	100.0	11	2	US-09-623-548A-957	Sequence 957, App	184	19	100.0	27	1	US-08-505-486-76	Sequence 76, Appl
112	19	100.0	11	2	US-09-623-548A-963	Sequence 963, App	185	19	100.0	27	1	US-08-505-486-77	Sequence 77, Appl
113	19	100.0	11	2	US-09-623-548A-990	Sequence 990, App	186	19	100.0	27	2	US-08-801-028-76	Sequence 76, Appl
114	19	100.0	11	2	US-09-657-276-957	Sequence 957, App	187	19	100.0	27	2	US-08-801-028-77	Sequence 77, Appl
115	19	100.0	11	2	US-09-657-276-963	Sequence 963, App	188	19	100.0	27	2	US-08-963-121C-9	Sequence 9, Appl
116	19	100.0	11	2	US-09-657-276-990	Sequence 990, App	189	19	100.0	27	2	US-09-340-154-76	Sequence 76, Appl
117	19	100.0	11	5	PCT-US96-10220-14	Sequence 14, Appl	190	19	100.0	27	2	US-09-340-154-77	Sequence 77, Appl
118	19	100.0	14	2	US-09-594-366-5	Sequence 5, Appl	191	19	100.0	27	2	US-09-543-513-9	Sequence 9, Appl
119	19	100.0	14	2	US-09-443-199C-1217	Sequence 1217, Ap	192	19	100.0	27	2	US-09-482-611B-76	Sequence 76, Appl
120	19	100.0	14	2	US-09-992-800-5	Sequence 5, Appl	193	19	100.0	27	2	US-09-482-611B-77	Sequence 77, Appl
121	19	100.0	15	1	US-08-480-190-39	Sequence 39, Appl	194	19	100.0	27	5	PCT-US95-04803-10	Sequence 10, Appl
122	19	100.0	15	1	US-08-612-785B-4	Sequence 4, Appl	195	19	100.0	27	5	PCT-US95-09338-76	Sequence 76, Appl
123	19	100.0	15	1	US-08-612-785B-14	Sequence 14, Appl	196	19	100.0	27	5	PCT-US95-09338-77	Sequence 77, Appl
124	19	100.0	15	1	US-08-612-785B-37	Sequence 37, Appl	197	19	100.0	27	5	PCT-US95-09339-76	Sequence 76, Appl
125	19	100.0	15	1	US-08-488-379-39	Sequence 39, Appl	198	19	100.0	27	5	PCT-US95-09339-77	Sequence 77, Appl
126	19	100.0	15	2	US-08-617-267C-14	Sequence 14, Appl	199	19	100.0	28	1	US-08-346-849-4	Sequence 4, Appl
127	19	100.0	15	2	US-08-766-596A-56	Sequence 56, Appl	200	19	100.0	28	1	US-08-302-808-7	Sequence 7, Appl
128	19	100.0	15	2	US-08-766-596A-57	Sequence 57, Appl	201	19	100.0	28	1	US-08-609-090-2	Sequence 2, Appl
129	19	100.0	15	2	US-08-766-596A-58	Sequence 58, Appl	202	19	100.0	28	1	US-08-966-948-7	Sequence 7, Appl
130	19	100.0	15	2	US-08-766-596A-60	Sequence 60, Appl	203	19	100.0	28	1	US-08-293-216A-4	Sequence 4, Appl
131	19	100.0	15	2	US-08-766-596A-61	Sequence 61, Appl	204	19	100.0	28	1	US-08-461-284-2	Sequence 2, Appl
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133	19	100.0	15	2	US-08-766-596A-65	Sequence 65, Appl	206	19	100.0	28	2	US-09-388-890-3	Sequence 3, Appl
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135	19	100.0	15	2	US-08-077-255A-39	Sequence 39, Appl	208	19	100.0	28	2	US-09-388-890-5	Sequence 5, Appl
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142	19	100.0	17	2	US-09-992-800-3	Sequence 3, Appl	215	19	100.0	28	2	US-09-388-890-13	Sequence 13, Appl
143	19	100.0	17	2	US-09-657-276-950	Sequence 950, App	216	19	100.0	28	2	US-09-388-890-14	Sequence 14, Appl
144	19	100.0	17	2	US-09-657-276-983	Sequence 983, App	217	19	100.0	28	2	US-08-723-661B-2	Sequence 2, Appl
145	19	100.0	17	2	US-08-970-833-11	Sequence 11, Appl	218	19	100.0	28	2	US-09-660-954-2	Sequence 2, Appl
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152	19	100.0	19	2	US-09-724-477-5	Sequence 5, Appl	225	19	100.0	28	2	US-09-660-954-9	Sequence 9, Appl
153	19	100.0	19	2	US-09-723-927-5	Sequence 5, Appl	226	19	100.0	28	2	US-09-660-954-10	Sequence 10, Appl
154	19	100.0	19	2	US-09-723-766-5	Sequence 5, Appl	227	19	100.0	28	2	US-09-660-954-11	Sequence 11, Appl
155	19	100.0	19	2	US-09-201-430-5	Sequence 5, Appl	228	19	100.0	28	2	US-09-660-954-12	Sequence 12, Appl
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161	19	100.0	19	2	US-10-815-022-5	Sequence 5, Appl	234	19	100.0	28	2	US-09-623-548A-976	Sequence 976, App
162	19	100.0	19	2	US-09-724-940-75	Sequence 75, Appl	235	19	100.0	28	2	US-09-623-548A-992	Sequence 992, App
163	19	100.0	19	2	US-10-934-609-5	Sequence 5, Appl	236	19	100.0	28	2	US-09-623-548A-1003	Sequence 1003, App
164	19	100.0	19	2	US-10-884-882-5	Sequence 5, Appl	237	19	100.0	28	2	US-09-657-276-959	Sequence 959, App
165	19	100.0	19	2	US-10-933-559-5	Sequence 5, Appl	238	19	100.0	28	2	US-09-657-276-965	Sequence 965, App
166	19	100.0	19	3	US-10-815-404-5	Sequence 5, Appl	239	19	100.0	28	2	US-09-657-276-976	Sequence 976, App
167	19	100.0	19	3	US-10-815-380-5	Sequence 5, Appl	240	19	100.0	28	2	US-09-657-276-982	Sequence 982, App
168	19	100.0	20	2	US-08-970-833-10	Sequence 10, Appl	241	19	100.0	28	2	US-09-657-276-992	Sequence 992, App
169	19	100.0	20	2	US-09-724-953-13	Sequence 33, Appl	242	19	100.0	28	2	US-09-657-276-1003	Sequence 1003, App
170	19	100.0	20	2	US-09-724-567-33	Sequence 33, Appl	243	19	100.0	28	3	US-09-865-294A-66	Sequence 66, Appl
171	19	100.0	20	2	US-09-979-952-33	Sequence 33, Appl	244	19	100.0	28	3	US-10-363-082-2	Sequence 2, Appl
172	19	100.0	20	2	US-09-585-817-33	Sequence 33, Appl	245	19	100.0	30	1	US-08-609-090-3	Sequence 3, Appl

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OM protein - protein search, using sw model

Run on: May 19, 2006, 17:30:23 ; Search time 182 Seconds  
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.10.181 Million cell updates/sec

Title: US-10-825-958-13

Perfect score: 19

Sequence: 1 KLVF 4

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 2097797 seqs, 463214858 residues

Total number of hits satisfying chosen parameters: 2097797

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

Published Applications AA Main:\*

- 1: /EMC\_Celerra\_SIDS3/prodata/2/pubppaa/US07\_PUBCOMB.pep:\*
- 2: /EMC\_Celerra\_SIDS3/prodata/2/pubppaa/US08\_PUBCOMB.pep:\*
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	* Query Match Length	DB ID	Description
1	19	100.0	4 3 US-09-867-847-15	Sequence 15, Appl
2	19	100.0	4 3 US-09-867-847-23	Sequence 23, Appl
3	19	100.0	4 3 US-09-850-061A-25	Sequence 25, Appl
4	19	100.0	4 3 US-09-915-092-5	Sequence 5, Appl
5	19	100.0	4 3 US-09-915-092-13	Sequence 13, Appl
6	19	100.0	4 3 US-09-747-408-6	Sequence 6, Appl
7	19	100.0	4 3 US-09-747-408-14	Sequence 14, Appl
8	19	100.0	4 4 US-10-721-774-25	Sequence 25, Appl
9	19	100.0	4 5 US-10-728-028-5	Sequence 5, Appl
10	19	100.0	4 5 US-10-728-028-13	Sequence 13, Appl
11	19	100.0	4 5 US-10-825-958-13	Sequence 13, Appl
12	19	100.0	4 5 US-10-825-958-21	Sequence 21, Appl
13	19	100.0	4 5 US-10-666-095-2	Sequence 2, Appl
14	19	100.0	5 3 US-09-867-847-17	Sequence 17, Appl
15	19	100.0	5 3 US-09-867-847-25	Sequence 25, Appl
16	19	100.0	5 3 US-09-850-061A-1	Sequence 1, Appl
17	19	100.0	5 3 US-09-850-061A-19	Sequence 19, Appl
18	19	100.0	5 3 US-09-850-061A-43	Sequence 43, Appl
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103	19	100.0	8	3	US-09-850-061A-8	Sequence 8, Appl1	176	19	100.0	10	5	US-10-822-968-22	Sequence 22, Appl
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105	19	100.0	8	3	US-09-850-061A-44	Sequence 44, Appl1	178	19	100.0	10	5	US-10-822-968-24	Sequence 24, Appl
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107	19	100.0	8	4	US-10-235-483-1	Sequence 1, Appl1	180	19	100.0	10	5	US-10-777-792-19	Sequence 19, Appl
108	19	100.0	8	4	US-10-463-729-5	Sequence 5, Appl1	181	19	100.0	10	5	US-10-777-792-20	Sequence 20, Appl
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112	19	100.0	8	4	US-10-721-774-44	Sequence 44, Appl1	185	19	100.0	10	5	US-10-777-792-24	Sequence 24, Appl
113	19	100.0	8	5	US-10-810-881A-125	Sequence 125, App	186	19	100.0	10	5	US-10-825-958-27	Sequence 27, Appl
114	19	100.0	8	5	US-10-817-979-73	Sequence 73, App	187	19	100.0	10	5	US-10-890-071-18	Sequence 18, Appl
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117	19	100.0	9	3	US-09-850-061A-7	Sequence 7, Appl1	190	19	100.0	10	5	US-10-890-071-21	Sequence 21, Appl
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124	19	100.0	9	4	US-10-619-454-25	Sequence 25, Appl	197	19	100.0	10	5	US-10-890-024-21	Sequence 21, Appl
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128	19	100.0	9	4	US-10-619-454-156	Sequence 156, App	201	19	100.0	10	5	US-10-625-854-137	Sequence 137, App
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140	19	100.0	10	4	US-10-741-205-13	Sequence 13, Appl	213	19	100.0	10	6	US-11-058-757-22	Sequence 22, Appl
141	19	100.0	10	4	US-10-741-208-35	Sequence 35, Appl1	214	19	100.0	10	6	US-11-058-757-23	Sequence 23, Appl
142	19	100.0	10	4	US-10-721-774-2	Sequence 2, Appl1	215	19	100.0	10	6	US-11-058-757-24	Sequence 24, Appl
143	19	100.0	10	5	US-10-889-999-18	Sequence 18, Appl	216	19	100.0	10	6	US-11-207-954-1	Sequence 1, Appl1
144	19	100.0	10	5	US-10-889-999-19	Sequence 19, Appl	217	19	100.0	11	3	US-09-988-842-25	Sequence 25, Appl
145	19	100.0	10	5	US-10-889-999-20	Sequence 20, Appl	218	19	100.0	11	3	US-09-988-842-26	Sequence 26, Appl
146	19	100.0	10	5	US-10-889-999-21	Sequence 21, Appl	219	19	100.0	11	4	US-10-235-483-14	Sequence 14, Appl
147	19	100.0	10	5	US-10-889-999-22	Sequence 22, Appl	220	19	100.0	11	4	US-10-235-483-15	Sequence 15, Appl
148	19	100.0	10	5	US-10-889-999-23	Sequence 23, Appl	221	19	100.0	11	4	US-10-464-117-13	Sequence 13, Appl
149	19	100.0	10	5	US-10-889-999-24	Sequence 24, Appl	222	19	100.0	11	4	US-10-423-047-3	Sequence 3, Appl1
150	19	100.0	10	5	US-10-890-070-18	Sequence 18, Appl	223	19	100.0	11	4	US-10-237-673-20	Sequence 20, Appl
151	19	100.0	10	5	US-10-890-070-19	Sequence 19, Appl	224	19	100.0	11	4	US-10-741-204-41	Sequence 41, Appl
152	19	100.0	10	5	US-10-890-070-20	Sequence 20, Appl	225	19	100.0	11	4	US-10-741-205-39	Sequence 39, Appl
153	19	100.0	10	5	US-10-890-070-21	Sequence 21, Appl	226	19	100.0	11	4	US-10-741-208-41	Sequence 41, Appl
154	19	100.0	10	5	US-10-890-070-22	Sequence 22, Appl	227	19	100.0	11	5	US-10-464-117-13	Sequence 13, Appl
155	19	100.0	10	5	US-10-890-070-23	Sequence 23, Appl	228	19	100.0	11	5	US-10-772-230-9	Sequence 9, Appl1
156	19	100.0	10	5	US-10-890-070-24	Sequence 24, Appl	229	19	100.0	11	5	US-10-772-230-25	Sequence 25, Appl
157	19	100.0	10	5	US-10-890-000-18	Sequence 18, Appl	230	19	100.0	11	5	US-10-625-854-135	Sequence 135, App
158	19	100.0	10	5	US-10-890-000-19	Sequence 19, Appl	231	19	100.0	11	5	US-10-625-854-138	Sequence 138, App
159	19	100.0	10	5	US-10-890-000-20	Sequence 20, Appl	232	19	100.0	11	6	US-11-066-697-957	Sequence 957, App
160	19	100.0	10	5	US-10-890-000-21	Sequence 21, Appl	233	19	100.0	11	6	US-11-066-697-963	Sequence 963, App
161	19	100.0	10	5	US-10-890-000-22	Sequence 22, Appl	234	19	100.0	11	6	US-11-066-697-990	Sequence 990, App
162	19	100.0	10	5	US-10-890-000-23	Sequence 23, Appl	235	19	100.0	11	6	US-11-291-770-20	Sequence 20, Appl
163	19	100.0	10	5	US-10-890-000-24	Sequence 24, Appl	236	19	100.0	12	3	US-09-867-847-8	Sequence 8, Appl1
164	19	100.0	10	5	US-10-823-463-18	Sequence 18, Appl	237	19	100.0	12	3	US-10-810-881A-115	Sequence 115, App
165	19	100.0	10	5	US-10-823-463-19	Sequence 19, Appl	238	19	100.0	12	5	US-10-810-881A-117	Sequence 117, App
166	19	100.0	10	5	US-10-823-463-20	Sequence 20, Appl	239	19	100.0	12	5	US-10-508-586-2	Sequence 2, Appl1
167	19	100.0	10	5	US-10-823-463-21	Sequence 21, Appl	240	19	100.0	12	5	US-10-508-586-3	Sequence 3, Appl1
168	19	100.0	10	5	US-10-823-463-22	Sequence 22, Appl	241	19	100.0	12	5	US-10-625-854-113	Sequence 113, App
169	19	100.0	10	5	US-10-823-463-23	Sequence 23, Appl	242	19	100.0	12	5	US-10-625-854-136	Sequence 136, App
170	19	100.0	10	5	US-10-823-463-24	Sequence 24, Appl	243	19	100.0	12	5	US-10-625-854-139	Sequence 139, App
171	19	100.0	10	5	US-10-728-028-19	Sequence 19, Appl	244	19	100.0	12	5	US-10-945-133-2	Sequence 2, Appl1
172	19	100.0	10	5	US-10-822-968-18	Sequence 18, Appl	245	19	100.0	12	5	US-10-945-133-3	Sequence 3, Appl1
173	19	100.0	10	5	US-10-822-968-19	Sequence 19, Appl	246	19	100.0	12	6	US-11-012-797A-33	Sequence 33, Appl